

Application No. 09/403,800
Title: OIL FROM WATER SEPARATOR
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PROPOSED AMENDMENTS TO THE CLAIMS
FOR THE EXAMINER'S CONSIDERATION ONLY, AND NOT FOR THE RECORD

Claims 1-32 (cancelled).

33. (Currently amended) An oil from water separator comprising:

an oil disengagement chamber adapted to receive an oil and water mixture and retain it for a sufficient time in a relatively undisturbed state whereby oil in the mixture floats to the top of the mixture resulting in a substantially oil free volume of water having a layer of oil derived from said oil and water mixture floating on the surface thereof, said oil disengagement chamber partially separated from an effluent water chamber by an under flow baffle which ducts said substantially oil free volume of water to said effluent water chamber, the oil disengagement chamber having a low liquid level which is higher than the under flow baffle, the outflow of said substantially oil free volume of water from said effluent water chamber being limited by flow retarding means to a rate of outflow which is a function of the head of the liquid in said effluent water chamber;

wherein during operation, the level of said oil and water mixture will rise from a chamber low liquid level up to a higher liquid level and then return to said chamber low liquid level, thereby defining an oil and water mixture active lag capacity within an oil and water mixture accumulation volume in said oil disengagement chamber ~~caused in part by said flow retarding means, such that, for a predefined range of inflows into said oil disengagement chamber, outflow from said effluent water chamber will contain a proportion of oil in water substantially below a predefined limit.~~ and wherein said flow retarding means operates to accumulate said oil and water mixture in said oil disengagement chamber in said oil and water mixture accumulation volume above said chamber low liquid level and wherein said flow retarding means comprises at least one siphon which primes at a chamber high liquid level and loses prime at said chamber low liquid level and wherein said accumulation volume is sized with reference to